PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference IP/P7085 WOD	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 03/05445	12/12/2003	17/12/2002
Applicant QINETIQ LIMITED		
This International Search Report has bee according to Article 18. A copy is being tree	n prepared by this International Searching Authansmitted to the International Bureau.	nority and is transmitted to the applicant
	of a total of5 sheets. a copy of each prior and document cited in this	report.
	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	ne international application furnished to this
was carried out on the basis of the contained in the internation filed together with the internation	e sequence listing : onal application in written form. ornational application in computer readable form	ternational application, the international search
	o this Authority in written form. This Authority in computer readble form.	
the statement that the sul	osequently furnished written sequence listing d as filed has been furnished.	oes not go beyond the disclosure in the
		s identical to the written sequence listing has been
Certain claims were four Unity of invention is fac	nd unsearchable (See Box I). king (see Box II).	
4. With regard to the title,		
the text is approved as su	ibmitted by the applicant.	
—	hed by this Authority to read as follows:	
ASSESSING OF MITOTIC A	ACTIVITY BY IMAGE ANALYSIS	
	ibmitted by the applicant. thed, according to Rule 38.2(b), by this Authori to date of mailing of this international search rep	
6. The figure of the drawings to be publ	,	2
X as suggested by the appli	· ·	None of the figures.
because the applicant fail	ed to suggest a figure.	_
because this figure better	characterizes the invention.	





International Application No PCT/GB 03/05445

A. CLASSIFICATION OF SUBJECT MATTER I PC 7 G06T7/00					
According to	ccording to International Patent Classification (IPC) or to both national classification and IPC				
	SEARCHED	ion and ir o			
Minimum do	cumentation searched (classification system followed by classification	n symbols)			
IPC 7	G06T				
Documentat	tion searched other than minimum documentation to the extent that su	uch documents are included in the tields sea	arched		
	ata base consulted during the International search (name of data bas	e and, where practical, search terms used)			
EPU-IN	ternal, INSPEC, WPI Data				
0.0001815	THE CONCINED TO BE DELEVANT				
Category °	ENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.		
Calogory	oration of document, minimodation, minor appropriate, or one re-	van passages			
Х	MADACHY R J ET AL: "Image analys	is for	1,6,18,		
	automatic classification of mitot	ic	19,21		
	cervical cells" PROCEEDINGS OF THE ANNUAL INTERNA	ATI ONAL			
	CONFERENCE OF THE IEEE ENGINEERING	IG IN			
	MEDICINE AND BIOLOGY SOCIETY (IEE				
	NO.88CH2566-8) IEEE NEW YORK, NY, 1988, pages 372-374 vol.1, XP0100	, USA, 074652			
	section: "Method"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Ì	section: "Cell Feature Analysis" section: Cell Classification"				
	section: tell trassification				
	-	·/			
Y Furth	ner documents are listed in the continuation of box C.	Patent family members are tisted in	n annex.		
° Special cat	tegories of cited documents:				
	ent defining the general state of the art which is not	T later document published after the inter or priority date and not in conflict with	he application but		
consid	ered to be of particular relevance	cited to understand the principle or the invention			
filing d	"E" earlier document but published on or after the international string date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
which i	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified)	"Y" document of particular relevance; the cl	aimed invention		
"O" docume	citation or other special reason (as specially) Co" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such document of the reason skilled.				
"P" docume	int published prior to the international filing date but	in the art. "&" document member of the same patent f	amily		
	actual completion of the international search	Date of mailing of the international sear			
. ت		2 9, 03, 05			
1	2 November 2004	_ J, J. J			
Name and m	nailing address of the ISA	Authorized officer			
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	O W			
	Fax: (+31-70) 340-2040, 1x: 31 651 epo fil,	Gao, M			

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International Application No PCT/GB 03/05445

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Indianas de la Ma
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
x	HIBBARD L S ET AL: "MULTISCALE DETECTION AND ANALYSIS OF THE SENILE PLAQUES OF ALZHEIMER'S DISEASE" IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, IEEE INC. NEW YORK, US, vol. 42, no. 12, 1 December 1995 (1995-12-01), pages 1218-1225, XP000556862 ISSN: 0018-9294 section II. A. "SP detection/classification strategy" section II. C. "SP detection by multiscale template correlation" section II. D. "Detected object definition" section II. G. "Classifier features"	1
Υ	section II. d. chastille realares	2-5
Y	DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; September 1999 (1999-09), NETSCH T ET AL: "Scale-space signatures for the detection of clustered microcalculations in digital mammograms." XP002301991 Database accession no. NLM10571382 abstract -& IEEE TRANSACTIONS ON MEDICAL IMAGING. SEP 1999, vol. 18, no. 9, September 1999 (1999-09), pages 774-786, XP002302593 ISSN: 0278-0062 section: III.A "Motivation and outline" section: III.B "Laplacian scale-space" section: III.C "Spot detection"	2-5
A	LINDEBERG T: "FEATURE DETECTION WITH AUTOMATIC SCALE SELECTION" INTERNATIONAL JOURNAL OF COMPUTER VISION, KLUWER ACADEMIC PUBLISHERS, NORWELL, US, vol. 30, no. 2, November 1998 (1998-11), pages 79-116, XP000800306 ISSN: 0920-5691 sections 4-5	1-6,18, 19,21
A	J.G. JONES ET AL: "multiresolution analysis of remotely sensed imagery" INTERNATIONAL JOURNAL OF REMOTE SENSING, 1991, pages 107-124, XP008037183 cited in the application section 2	1-6,18, 19,21

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International application No. PCT/GB 03/05445

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
A. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1, 2-6 (when dependent on claim 1), 19, 21 (when dependent on claim 1)
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 2-6,18(when dependent on clm 1),19,21(when dependent on clm 1)

Detection of potential regions of interest

2. claims: 7(when dependent on clm 1)-11

contour estimation of the detected objects

3. claims: 12(when dependent on clm 1),13(when dependent on clm 1),14(when dependent on clm 1)-17,18(when dependent on clm 17),19(when dependent on clm 17),20

curvature estimation of the contours